AcerBasic

User's Guide

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions carefully. Save these instructions for future reference.

2. Follow all warnings and instructions marked on the product.

3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

4. Do not use this product near water.

5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.

9. If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.

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10. Never pusb objects of any kind into tbis product througb cabinet slots as tbey may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

11. Do not attempt to service tbis product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    a. When the power cord or plug is damaged or frayed

    b. If liquid has been spilled into tbe product

    c. If the product has been exposed to rain or water

    d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of otber controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

    e. If the product has been dropped or the cabinet has been damaged

    f. If the product exhibits a distinct cbange in performance, indicating a need for service

13. Replace battery with tbe same type as the product's battery we recommend. Use of another battery may present a risk of fire or explosion. Refer battery replacement to a qualified serviceman.

14. Warning! Battery may explode if not handled properly. Do not disassemble or dispose of in fire. Keep away from children and dispose of used battery promptly.

15. Use only the proper type of power supply cord set (provided in your accessories box) for this unit. It should be a detachable type: UL listed/CSA certified, type SVT, rated 7A 125V minimum, VDE approved or its equivalent. Maximum length is 15 feet (4.6 meters).

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Caution on Lithium Batteries

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

ADVARSEL!
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Léver det brugte batteri tilbage til leverandøren.

ADVARSEL
Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

VARNING
Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

VAROITUS
Päristo voi räjäbtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

VORSICHT!
Explosionsgefabr bei unsacbgemäßen Austausch der Batterie Ersatz nur durcb denselben oder einem vom Hersteller empfohlenem ähnlicben Typ. Entsorgung gebraucbter Batterien nach Angaben des Herstellers.

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FCC Class B Radio Frequency Interference Statement

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, wbich can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to wbich the receiver is connected.
4. Consult the dealer or an experienced radio/television tecbnician for help.

Notice 1:

Tbe changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2:

Shielded interface cables, if any, must be used in order to comply with the emission limits.

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Canadian Department of Communications Regulatory Statement

This digital apparatus does not exceed Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radio-électriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Laser Compliance

The CD-ROM drive in the AcerBasic is a laser product. The CD-ROM drive's classification label (shown below) is located on the top of the drive.

CLASS 1 LASER PRODUCT	**CAUTION:** INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
APPAREIL A LASER DE CLASSE 1 PRODUIT LASER	**ATTENTION:** RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITTER TOUTE EXPOSITION AUX RAYONS.
LUOKAN 1 LASERLAITE LASER KLASSE 1	**VORSICHT:** UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHLL AUSSETZEN
PRODUCTO LÁSER DE LA CLASE I	**ADVERTENCIA:** RADIACIÓN LÁSER INVISIBLE AL SER ABIERTO. EVITE EXPONERSE A LOS RAYOS.

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Congratulations on your purchase of the AcerBasic personal computer. Compact in size, not in features, the AcerBasic personal computer opens a window of information to your home or office. We hope you enjoy your AcerBasic personal computer as much as we enjoyed designing and making it for you.

This user's guide quickly guides you in setting up and using your AcerBasic personal computer.

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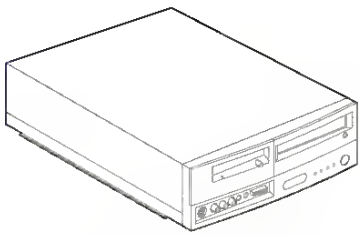
Unpacking

The AcerBasic personal computer package contains the following items. Carefully unpack each item and set aside.

Standard Items

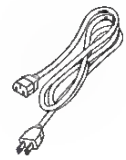


- AcerBasic personal computer

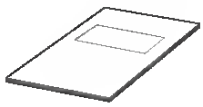
- Wireless keyboard

- SCART Euro-AV cable

- Audio and video cables



- Power cord



- User's guide and miscellaneous items

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Unpacking

Optional Items

- Remote control
- Computer video camera kit

The items in your package may differ slightly.

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Getting to Know your AcerBasic

The AcerBasic series personal computer has common features listed below:

Basic Features

- High-performance central processing unit (CPU)

  A fast core (consisting of the CPU and chipsets*) allows your computer to process information and data fast.

- High-speed memory

  Standard memory configuration is 16 megabytes (MB) of fast EDO (Extended Data Out) or fast page RAM (Random Access Memory). These memory types give you true value, balancing price and performance.

- High-performance video

  The graphics adapter with 2MB of video memory outputs high-resolution, high-speed graphics onto your television or monitor. 3D graphics support also turn your AcerBasic into a gaming machine.

- High-capacity storage mediums
  - One high-capacity hard disk drive
  - One 3.5-inch, 1.44MB floppy disk drive
  - One high-speed CD-ROM drive

* Chipsets are sets of microprocessors that perform specific functions.

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Getting to Know your AcerBasic

- High-speed connectivity

  Whether you need to get connected via modem or network, this computer has it. Its built-in 33.6 kilobits per second (Kbps) modem connects to a phone line; its built-in Ethernet (10BaseT) jack connects to a network. See page 12.

- Peripheral connectivity

  Located at the front and rear of the computer are a host of connectors for a large variety of peripherals — printer, mouse, keyboard, microphone, speakers, joystick just to name a few. See *"Setting Up the AcerBasic"* on page 6.

- "User-Friendly" software

  The bundled software helps you explore a world of information. Refer to the applications guide for details.

- Security features

  Security features include passwords for protecting your computer from unauthorized access. See page 27.

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Getting to Know your AcerBasic

Optional Features

Options include:

- Hardware upgrades
  - Additional memory
  - Higher-capacity hard disk
  - Higher-speed CD-ROM drive
  - DVD-ROM drive
  - MPEG-II capability
- Hardware options
  - Remote control
  - Computer video camera kit
  - External monitor
  - External keyboard
  - External mouse
  - Network hubs
  - USB devices
- Software options

Please contact your dealer or reseller for the options available in your region.

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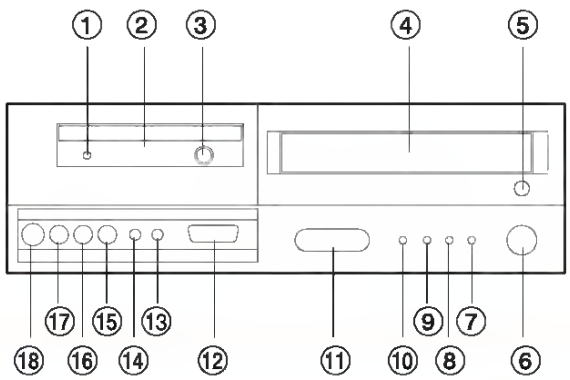
Setting Up the AcerBasic

This section describes the things to consider when setting up your AcerBasic.

Locating the Connectors

Most of the connectors on the computer are found at the rear of the unit. A few connectors are found on the front for easy access. Let's take a look at the front and rear of the unit before we make the connections.

Front



#	Item	Description
1	Floppy disk drive activity indicator	Lights up when the floppy disk drive is being accessed
2	Floppy disk drive	Accepts 3.5-inch, 1.44MB diskette
3	Floppy disk drive eject button	Ejects the diskette from the floppy disk drive
4	CD-ROM drive	Accepts a CD-ROM disc

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#	Item	Description
5	CD-ROM drive open/close button	Opens and closes the CD-ROM drive
6	On/sleep button	Turns the computer on and puts the computer to sleep
7	Power/suspend indicator	Lights green when on; lights orange when in suspend mode
8	Hard disk/message indicator	Flashes when your hard disk drive is in use
9	Network active indicator	Flashes when your computer is communicating with the network
10	Network link indicator	Lights when the computer is connected to a network
11	Infrared receiver	Receives input from the wireless keyboard or remote control Allows you to transfer data or files with another AcerBasic computer
12	Game/MIDI port	Connects a joystick, game device or MIDI device
13	Microphone jack	Connects a microphone
14	Earphone/headphone jack	Connects an earphone or headphone
15	VCR/camcorder audio input jack (right)	Connects to the right audio input of a VCR or camcorder
16	VCR/camcorder audio input jack (left)	Connects to the left audio input of a VCR or camcorder
17	VCR/camcorder video input jack	Connects to the video input of a VCR or camcorder
18	S-video input	Connects to the S-video input of a VCR or camcorder

* Your computer enters suspend mode when the suspend timer times out (see page 50). You can also put the computer in suspend mode by selecting the Suspend command from the Start menu.

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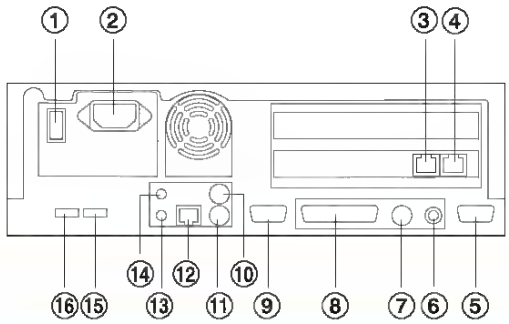
Setting Up the AcerBasic

Rear



#	Item	Description
1	On/off switch	Turns power on and off
2	Power cord socket	Connects a power cord
3	Phone set jack	Connects a telephone set
4	Phone line jack	Connects a phone line
5	External CRT port	Connects an external monitor
6	Video output jack	Connects to the video input of a television
7	S-video output jack	Connects to the S-video input of a television
8	Parallel port	Connects a printer or other parallel device
9	Serial port	Connect a serial mouse or other serial device
10	PS/2 mouse port	Connects a PS/2 mouse
11	PS/2 keyboard port	Connects a PS/2 keyboard
12	Network jack	Connects a network line (Ethernet)
13	Audio output jack	Connects to speakers or other audio output devices
14	Audio input jack	Connects a audio input device
15	USB port 2	Connects a USB device
16	USB port 1	Connects a USB device

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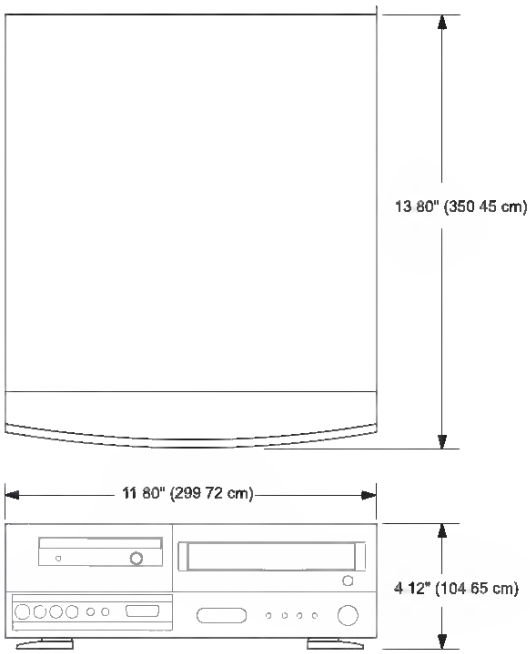
Setting Up the AcerBasic

Finding a Suitable Area to Place the AcerBasic

The AcerBasic has the following dimensions.



Locate a suitable area to place the AcerBasic. Allow ample space on all sides of the unit for cords and cable connections. The AcerBasic should also be placed near the devices you will connect to it.

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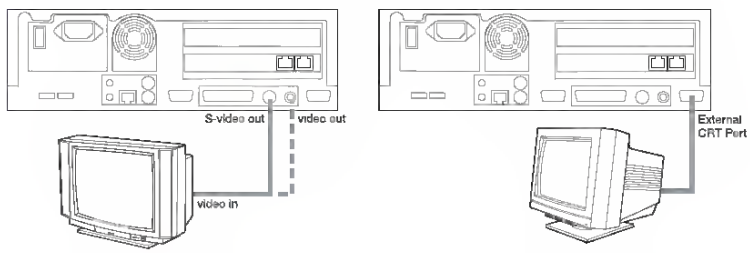
Setting Up the AcerBasic

Basic Connections

These are the basic connections you need to get your AcerBasic up and going. You can also connect options like a printer or the phone line, described in pages 12 to 17.

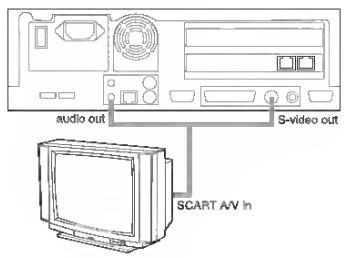
Connecting to a Television or a Monitor

First you need to connect an output device to the computer which can either be a television unit or a computer monitor.



Television Unit **Computer Monitor**

If your television uses a SCART interface, use the included SCART cable to connect your television set to the computer.



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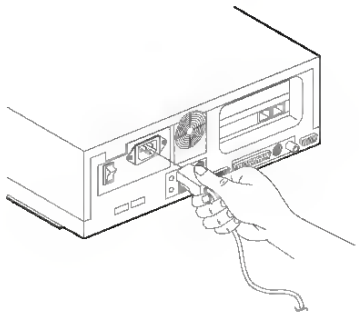
Setting Up the AcerBasic

Connecting the Power Cord

Connect the power cord to the power cord socket at the rear of the unit. Then connect the other end to a properly ground power outlet.



These basic connections you've just made are all you need to get your AcerBasic up and running. If you need to make other connections such as a phone line (for connecting to the Internet) or a printer (for printing documents), read on. Otherwise, you can jump to page 19.

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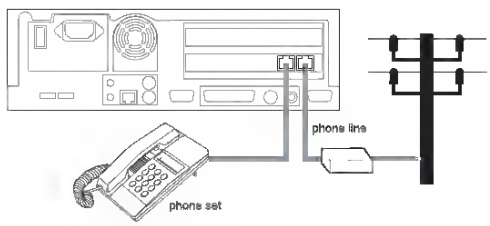
Setting Up the AcerBasic

Connecting Options

Other connections you make to your computer include the following:

Phone Line

Connecting to the Internet usually requires a modem, which is built into the AcerBasic. A phone line jack, found at the rear of the unit, connects to your phone line. You can also connect a telephone set to the phone set jack.



Your modem has been designed to work with an analog telephone line like the ones commonly found in your home. Connecting your modem to a digital phone system or a PBX (Private Branch Exchange) system, like the ones found in large establishments and office complexes, can cause damage to your modem.

Before using the modem, make sure you are connecting an analog telephone line. Check with the your telephone company or office where you can connect to an analog line.

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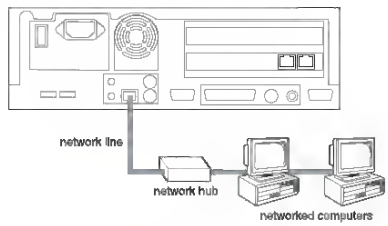
Network Line

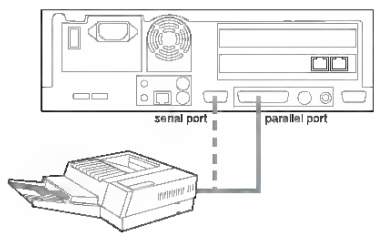
You can connect the AcerBasic to a network with the built-in 10BaseT (Ethernet) jack found at the rear of the unit. Computers in most companies are connected on networks to facilitate the transfer of information.



If you are using the AcerBasic in a networked environment, contact your system administrator for details.

Printer

A printer allows you to print out documents and other data from your computer to paper. At the rear of the unit, connect a parallel printer to the parallel port; or connect a serial printer to the serial port.



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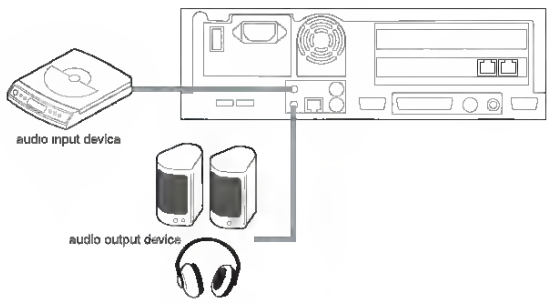
Setting Up the AcerBasic

Audio and Game Devices

You can connect various audio and game devices to your computer. Some of these ports are duplicated in the front of the unit for easy connection.

At the rear of the unit:



- speakers, earphones or headphones connect to the audio line-out jack
- audio input device connects to the audio input jack

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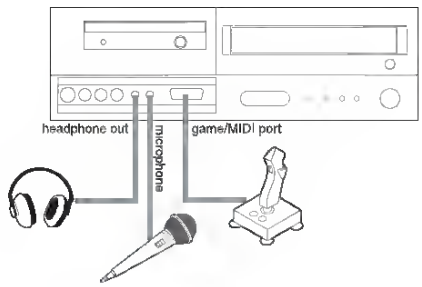
Setting Up the AcerBasic

At the front of the unit:



- earphones or headphones connect to the earphone/ headphone jack
- microphone connects to the microphone jack
- joystick, game or MIDI device connects to the game/MIDI port

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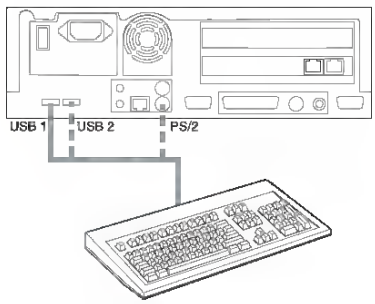
Setting Up the AcerBasic

External Keyboard

You may prefer to use an external keyboard instead of the wireless keyboard that comes with the AcerBasic. There are two types of keyboards besides the wireless keyboard that you can use with the AcerBasic:

- USB keyboard connects to any of the two USB ports
- PS/2 keyboard connects to the PS/2 keyboard port

These ports are found on the rear of the unit.



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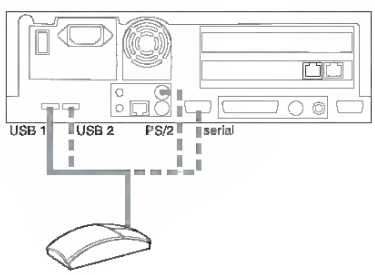
External Mouse

The wireless keyboard has a built-in pointing device. However, you may prefer to use an external mouse instead. There are three types of mice besides the one built into the wireless keyboard that you can use with the AcerBasic:

- USB mouse connects to any of the two USB ports
- PS/2 mouse connects to the PS/2 mouse port
- Serial mouse connects to the serial port

These ports are found on the rear of the unit.



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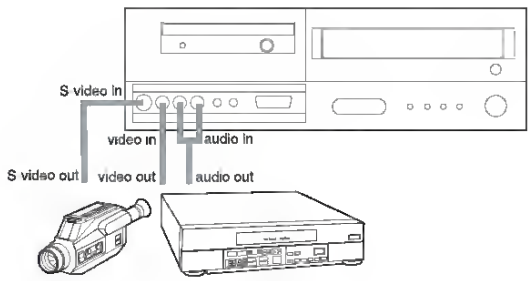
Setting Up the AcerBasic

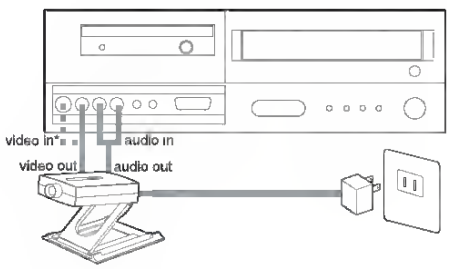
Video Cassette Recorder or Camcorder

You can also connect a video cassette recorder (VCR) or camcorder to the unit.



Computer Video Camera

You can also connect a computer video camera to the unit.



* Some computer video cameras support an S-video connection.

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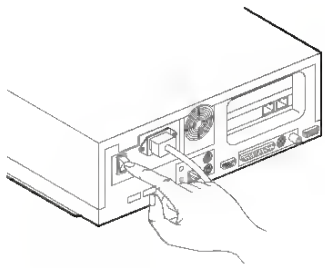
Turning on the Computer

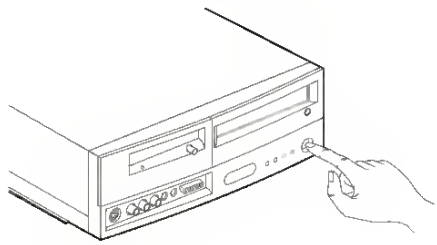
Follow these steps to turn on your computer:

1. A power switch is located at the rear of the computer, to the left of the power cord socket. Press the power switch to the **ON** (**I**) position.



2. Turn on your television or your monitor (the one you connected to the computer).

3. Press the On/Sleep button at the front of the computer.



The computer starts up and Windows 95 begins loading.

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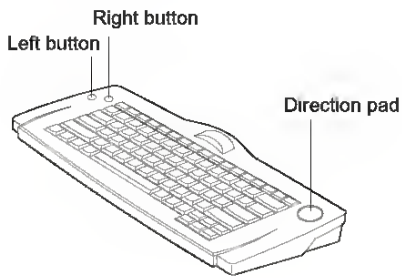
Using the AcerBasic

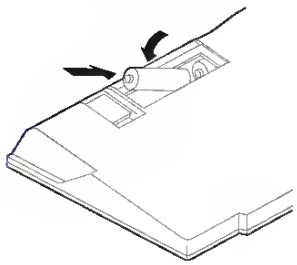
Using the Wireless Keyboard

The wireless keyboard with infrared technology has a built-in pointing device, similar to the ones found in gamepads. This direction pad functions like a mouse or trackball as it moves the cursor on the screen.



Move the direction pad in any direction to move the mouse pointer on the screen. The left and right buttons function like those on a mouse or trackball.

Installing the Battery



The wireless keyboard uses two (2) size AA batteries. Flip open the battery cover to see the installation diagram.

After installing the batteries, close the battery cover.

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Using the Floppy Disk Drive

The floppy disk drive accepts a 3.5-inch, 1.44MB diskette. Found in almost all computer systems today, this diskette type standard allows you to easily transfer files between your AcerBasic and other computer systems.

Guidelines on Floppy Disk Drive Use

Read through the following guidelines when using the floppy disk drive:

- Always make backup copies of diskettes that contain important data or program files.
- Keep diskettes away from magnetic fields and sources of heat.
- Avoid removing a diskette from a drive when the floppy drive activity light is on.
- When you put a label on a 3.5-inch diskette, make sure the label is properly attached (flat on the surface) and within the labelling area (area with slight surface depression) on the diskette. An improperly attached label may cause a diskette to get stuck in the drive when you are inserting or removing it.

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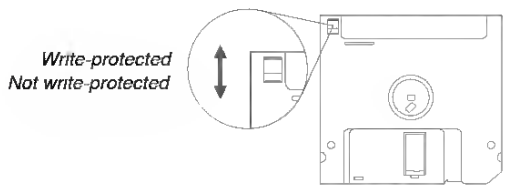
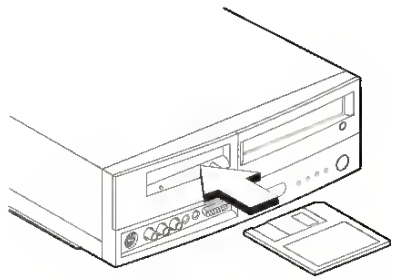
❍ Write-protect your diskettes to prevent accidental erasure. To do this, slide the write-protect tab to the write-protect position.



Inserting and Ejecting a Floppy Disk

To insert a floppy disk for use with the AcerBasic, insert the floppy disk into the floppy disk drive as shown in the figure below.



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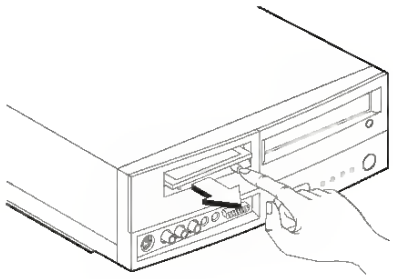
To eject a floppy disk, press the floppy disk drive eject button. Then carefully remove the floppy disk from the floppy disk drive.



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Using the AcerBasic

Using the CD-ROM Drive

The CD-ROM drive is capable of high speed data access and transfer, and can read a variety of CD formats as well as play your audio compact discs. The compact disc stores as much as 650MB of information, making it a useful medium for presenting multimedia-based applications.

Guidelines on CD-ROM Drive Use

Read through the following guidelines before using the CD-ROM drive:

- Do not open the disc tray except when inserting or removing a disc.
- Do not place any item on top of the disc tray. Never attempt to push down on an opened disc tray.
- Always remove the disc from the drive if you are going to move the AcerBasic.
- On discs:
  - Always handle a disc by its edges. Do not touch the surface of the disc (especially the underside)
  - Never write on a disc or place a label on the surface of the disc.
  - Never bend a disc.
  - Do not store a disc in places with high temperature and humidity.

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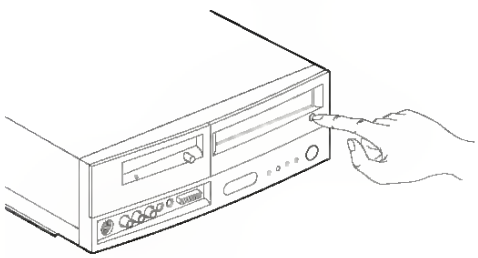
- Always store a disc in its case to prevent dust contamination, scratches, bending, and other damages.
- To remove dust or fingerprints, use a clean, soft and dry cloth. Never use fluids like benzene or anti-static fluids. Using fluids of these types may damage the disc.

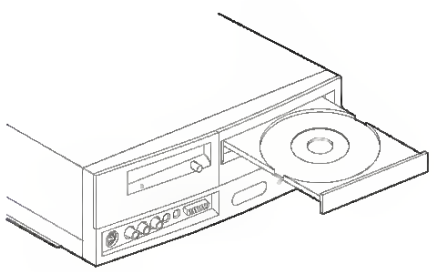
Inserting and Removing a CD-ROM Disc

To insert a CD-ROM disc into the CD-ROM drive, the computer must be ON. Follow these steps:

1. Press the CD-ROM drive open/close button.



The CD-ROM disc tray slides out.



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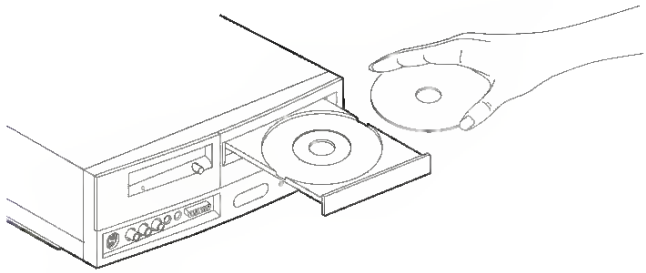
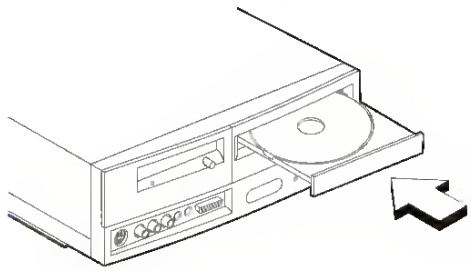
2. Place a CD-ROM disc onto the CD-ROM disc tray.



3. Press the CD-ROM drive open/close button. The CD-ROM drive tray slides back in.



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Setting Passwords

Passwords are a security feature of your computer, protecting your computer from unauthorized access.

There are two types of passwords you can set:

- Setup
- Power-on

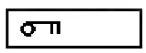
Do not forget your password! *If you forget your password, you need to contact your dealer.*

Setup Password

The Setup Password prevents unauthorized access to the BIOS Utility. The BIOS Utility is a setup utility for your hardware settings. For more information on this utility, see page 35.

Setting a Password

1. During POST (while the startup logo is being displayed), press **Ctrl-Alt-Esc** to enter the BIOS Utility.
2. Select System Security and press **Enter**.
3. Highlight the Setup Password parameter and press the ↑ or ↓ key. The password prompt appears:



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4. Type a password. The password may consist of up to seven characters (A-Z, a-z, 0-9).

Be very careful when typing your password because the characters do not appear on the screen.

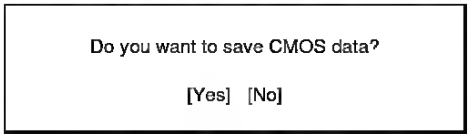
5. Press **Enter**. A prompt asks you to retype the password to verify your first entry.

6. Retype the password then press **Enter**.

   After setting the password, the computer automatically sets the Setup Password parameter to **Present**.

7. Press **Esc** to exit the System Security screen and return to the main menu.

8. Press **Esc** to exit the BIOS Utility. A dialog box appears asking if you want to save the CMOS data.



9. Select **Yes** to save the changes and reboot the computer.

The next time you want to enter the BIOS Utility, you must key-in your Setup password.

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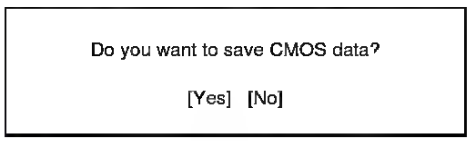
Changing or Removing the Setup Password

Should you want to change your setup password, do the following:

1. During POST (while the startup logo is being displayed), press **Ctrl-Alt-Esc** to enter the BIOS Utility.
2. Select System Security and press **Enter**.
3. Highlight the Setup Password parameter.
4. Press → or ← to display the password prompt and key-in a new password.

   or

   Press → or ← and select **None** to remove the existing password.
5. Press **Esc** to exit the System Security screen and return to the main menu.
6. Press **Esc** to exit the BIOS Utility. A dialog box appears asking if you want to save the CMOS data.



7. Select **Yes** to save the changes.

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Using the AcerBasic

Power On Password

The Power On Password secures your computer against unauthorized use. Once you set this password, you have to type it whenever you boot the computer. To set this password, enter the BIOS Utility, select System Security, then highlight the Power On Password parameter. Follow the same procedure as in setting the Setup password.

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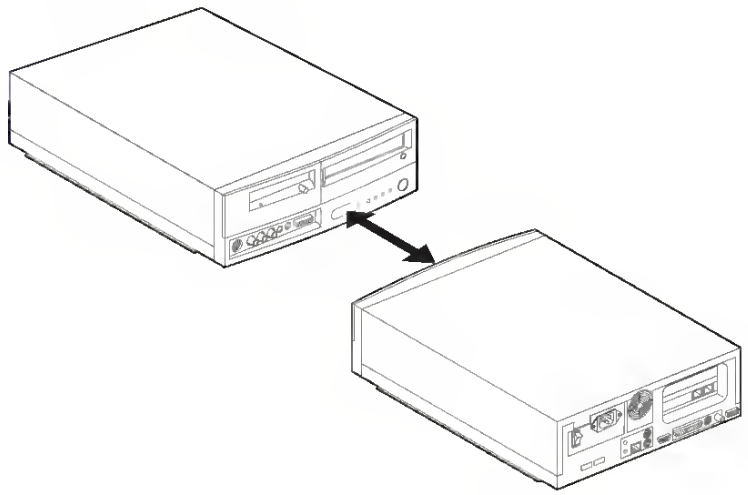
Communicating Between AcerBasics

You can transfer files between two AcerBasic computers using the built-in infrared feature and bundled infrared software.



The two AcerBasic units should be facing each other with a maximum angle of 15 degrees. When set-up, the two computers will automatically detect and establish a connection. The IRConnect ("infrared connect") icon will appear on the taskbar, indicating the status of the connection:

- means a successful connection
- means no connection

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Using the AcerBasic

Transferring Files

With a proper connection, you can now transfer files between the two computers. Follow these steps:

1. Double-click on the Network Neighborhood icon on your desktop.

   Two new items pertaining to the two computers appear in the list.

2. Double-click on each item to open their contents.

3. Drag and drop files from one computer to the other, and vice-versa.

You can also access these functions via the IRConnect software. Simply double-click on the IRConnect taskbar icon to bring up the window; then access the toolbar or menu functions.

To set-up the IRConnect software, please refer to the applications manual for details.

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Care and Maintenance

This section includes items on care and maintenance of your computer.

Your computer will serve you well if you take care of it. This section tells you how to care for the notebook. Also, re-read the important safety instructions at the beginning of this manual.

- Do not expose the computer to direct sunlight. Do not place near sources of heat, such as a radiator or heater.
- Do not expose to temperatures below 0°C (32°F) or above 50°C (122°F).
- Do not subject the computer and magnetic media (e.g., diskettes) to magnetic fields.
- Do not expose the computer to rain or moisture.
- Do not spill water on the computer.
- Do not insert inappropriate objects into the diskette and CD-ROM drives. Diskettes, one at a time, go into the diskette drive; One CD-ROM disc goes on the CD-ROM drive tray.
- Do not subject the computer to heavy shock and vibration.
- Do not expose the computer to dust and dirt.
- Do not place items on top of cables; carefully route cables to and from the computer.

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Getting Help

This user's guide provides clear and concise information about your AcerBasic, so read it thoroughly. Online help is also especially helpful when using specific applications.

Accessing Online Help

To get help with Windows 95:

1. Click on **Start**.
2. Click on **Help**.

To get help with specific applications, refer to the documentation that came with the application. Most applications have a **Help** item on their menu bar that you can gain access to.

Getting Help Online

If you are connected to the Internet and have World Wide Web access, visit our homepage (http://www.acer.com/) to get support and the latest information about our products.

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Setup Utility

Your computer has a built-in BIOS (Basic Input/Output System) setup utility. With this utility, you can configure certain hardware settings for your computer.

Basically, your computer is already correctly configured for you and you do not need to run this utility unless you get a Run Setup message.

Run this utility if you want to do any of the following:

- Check the configuration of the computer
- Change the drive boot sequence
- Set or change power-saving options
- Set or change resume options
- Set, change or remove passwords

BIOS Utility Main Screen

Follow these steps to access this utility:

1. Turn on your computer.

   The Startup logo screen shows while the computer is booting up.

2. When you hear a beep, press **Ctrl-Alt-Esc**.

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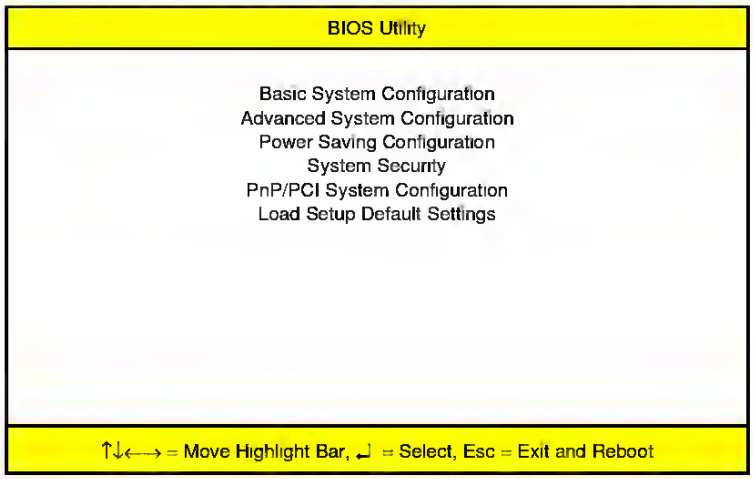
Setup Utility

The following screen is the main menu of the setup utility.


BIOS Utility
Basic System Configuration
Advanced System Configuration
Power Saving Configuration
System Security
PnP/PCI System Configuration
Load Setup Default Settings
↑↓←→ = Move Highlight Bar, ↵ = Select, Esc = Exit and Reboot

To enter a menu item, use the cursor up/down (↑, ↓) keys to select the item, then press **Enter**.

The following sections describe the different sections of this utility.

The parameters on the screens show default values. Some values such as hard disk drive and memory sizes may not be the same as those in your computer.

Grayed-out items on the screens have fixed settings and are not user-configurable.

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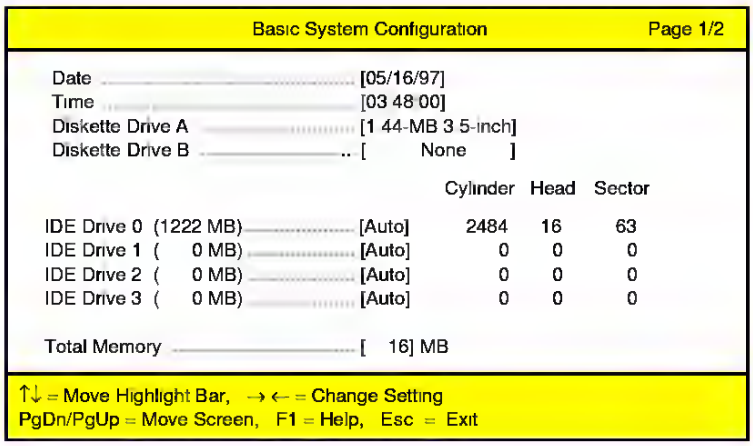
Basic System Configuration

Select Basic System Configuration to input configuration values such as date, time, and disk types.

The following screen shows the Basic System Configuration menu.


Basic System Configuration
Page 1/2
Date [05/16/97]
Time [03 48 00]
Diskette Drive A [1 44-MB 3 5-inch]
Diskette Drive B [None]
Cylinder Head Sector
IDE Drive 0 (1222 MB) [Auto] 2484 16 63
IDE Drive 1 (0 MB) [Auto] 0 0 0
IDE Drive 2 (0 MB) [Auto] 0 0 0
IDE Drive 3 (0 MB) [Auto] 0 0 0
Total Memory [16] MB
↑↓ = Move Highlight Bar, → ← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

The command line at the bottom of the menu tells you how to highlight items, change settings, and move from one screen to another.

Press cursor up (↑) or cursor down (↓) on the cursor-edit keypad to highlight the desired parameter.

Press cursor right (→) or cursor left (←) to select the desired option for a parameter.

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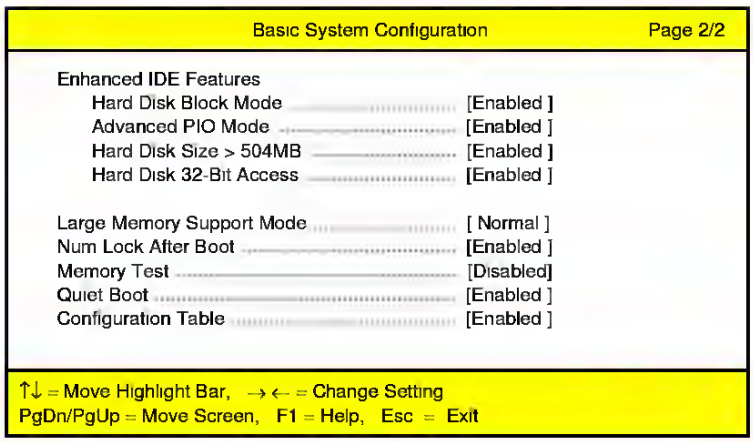
Setup Utility

Press the page down key (**PgDn**) to move to the next page or the page up key (**PgUp**) to return to the previous page.

Press the escape key (**Esc**) to exit the configuration menu.

The following screen shows page 2 of the Basic System Configuration menu.


Basic System Configuration Page 2/2
Enhanced IDE Features
Hard Disk Block Mode [Enabled]
Advanced PIO Mode [Enabled]
Hard Disk Size > 504MB [Enabled]
Hard Disk 32-Bit Access [Enabled]
Large Memory Support Mode [Normal]
Num Lock After Boot [Enabled]
Memory Test [Disabled]
Quiet Boot [Enabled]
Configuration Table [Enabled]
↑↓ = Move Highlight Bar, → ← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

Date and Time

The real-time clock keeps the system date and time. After setting the date and time, you need not enter them every time you turn on the computer. As long as the internal battery remains good (approximately seven years) and connected, the clock continues to keep the date and time accurately even when the power is off.

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DATE

Highlight the items on the date parameter and press → or ← to set the date following the month-day-year format.

Valid values for month, day, and year are:

- Month **1** to **12**
- Day **1** to **31**
- Year **00** to **99**

TIME

Highlight the items on the time parameter and press → or ← to set the time following the hour-minute-second format.

Valid values for hour, minute, and second are:

- Hour **00** to **23**
- Minute **00** to **59**
- Second **00** to **59**

Diskette Drives

To enter the configuration value for the first diskette drive (drive A), highlight the Diskette Drive A parameter. Press → or ← key to view the options and select the appropriate value.

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Possible settings for the Diskette Drive parameters:

- **None**
- **360 KB, 5.25-inch**
- **1.2 MB, 5.25-inch**
- **720 KB, 3.5-inch**
- **1.44 MB, 3.5-inch**
- **2.88 MB, 3.5-inch**

If you do not have a second diskette drive, set Diskette Drive B to **None**.

IDE Drives

Move the highlight bar to the IDE Drive 0 parameter to configure the first IDE drive (drive C). Press → or ← to display the IDE drive types with their respective values. Select the type that corresponds to your IDE hard disk drive. Follow the same procedure for the other IDE hard disk drives, if any. Choose **None** for IDE drives other than hard disk and CD-ROM.

Selecting the "Auto" Option

If you do not know the exact type of your IDE hard disk drive, select the option **Auto**. During the power-on self-test (POST), when the computer performs self-testing and self-initialization before loading the operating system and applications, the setup utility automatically determines your IDE drive type. You can see the drive type and its values when you enter the BIOS Utility.

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		Cylinder	Head	Sector
IDE Drive 0 (xx MB)	[Auto]	xx	xx	xx

If desired, you can save the values under the option **User**.

		Cylinder	Head	Sector
IDE Drive 0 (xx MB)	[User]	xx	xx	xx

The next time you boot the computer, the BIOS Utility does not have to auto-configure your IDE drive as it detects the saved disk information during POST.

We recommend that you copy the IDE disk drive values and keep them in a safe place in case you have to reconfigure the disk in the future.

Follow the same procedure to auto-configure other IDE drives.

Selecting the "User" Option

There are cases when you cannot use the option **Auto**, instead you have to select **User**. Choose the **User** option when you have installed an IDE hard disk that was previously formatted but does not use the disk native parameters or structure, that is, the disk type may be in the IDE hard disk types list but the number of cylinders, heads, and sectors differ.

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Setup Utility

Follow these steps to configure an IDE hard disk with the User option:

1. Highlight an IDE drive parameter.
2. Select the option **User** and press **Enter**.
3. Type in the number of cylinders, heads, and sectors of the drive under the appropriate columns.

Be sure to have the correct IDE hard disk drive information beforehand.

4. Choose **Yes** when asked if you want to save CMOS data.

Total Memory

The computer automatically detects the total amount of onboard memory during the POST and sets this parameter accordingly. If you install additional memory, the computer automatically adjusts this parameter to display the new memory size.

Enhanced IDE Features

HARD DISK BLOCK MODE

This function enhances disk performance depending on the hard disk in use. If you set this parameter to **Enabled**, it allows data transfer in block (multiple sectors) by increasing the data transfer rate to 256 bytes per cycle. If your computer does not boot after enabling this parameter, change the setting to **Disabled**. This parameter is normally set to **Enabled**.

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ADVANCED PIO MODE

Enabling this parameter allows for faster data recovery and read/write timing that reduces hard disk activity time. This results to better hard disk performance.

To utilize this feature, your hard disk must support the advanced PIO mode. If not, set this parameter to **Disabled.** Refer to your hard disk documentation for information about the advanced PIO mode.

HARD DISK SIZE > 504 MB

This enhanced IDE feature works only under DOS and Windows 3.x environments. If enabled, it allows you to use a hard disk with a capacity of more than 504 MB. This is made possible through the Logical Block Address (LBA) mode translation. Other operating systems require this parameter to be set to **Disabled.**

HARD DISK 32-BIT ACCESS

Enabling this parameter improves system performance by allowing the use of the 32-bit hard disk access. This enhanced IDE feature works only under DOS, Windows 3.x and Novell NetWare. If your software or hard disk does not support this function, set this parameter to **Disabled** .

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Setup Utility

Large Memory Support Mode

This option allows your computer to support an extended memory higher than 64 MB. Set the parameter to **Advanced** if you are working under the Windows NT v.3.1 environment. Otherwise, set this to its default which is **Normal.**

Num Lock After Boot

This parameter allows you to activate the Num Lock function upon booting. The default setting is **Enabled.**

Memory Test

When set to **Enabled**, this parameter allows the computer to perform a RAM test during the POST routine. When set to **Disabled**, thc computer detects only the memory size and bypasses the test routine. The default setting is **Disabled** .

Quiet Boot

This parameter enables or disables the quiet boot function. When set to **Enabled**, BIOS is in graphical mode and displays only an identification logo during POST and while booting. After which the screen displays the operating system prompt (such as DOS) or logo (such as Windows 95). If any error occurred while booting, the computer automatically switches to the text mode.

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Even if your setting is **Enabled**, you may also switch to the text mode while booting by pressing **F9** after you hear a beep that indicates the activation of the keyboard.

When set to **Disabled**, BIOS is in the conventional text mode where you see the system initialization details on the screen.

Configuration Table

This parameter allows you to display the configuration table after POST but before booting. The configuration table gives a summary of the hardware devices and settings that BIOS detected during POST. A sample configuration table appears below.

CPU ID	Pentium	Base Memory	640 KB
CPU Clock	133 MHz	Extended Memory	15360 KB
Math Coprocessor	Installed	Shadow RAM	384 KB
IDE Drive 0	1222 MB	Internal Cache	16 KB, Enabled
IDE Drive 1	None	External Cache	256 KB, Enabled
IDE Drive 2	CD-ROM	Serial Port(s)	3F8h, 2F8h
IDE Drive 3	None	Parallel Port(s)	378h
Diskette Drive A	1.44-MB, 3 5-inch	Pointing Device	Installed
Diskette Dnve B	None	ECC/Parity Mode	Disabled
USB HC	Disabled		

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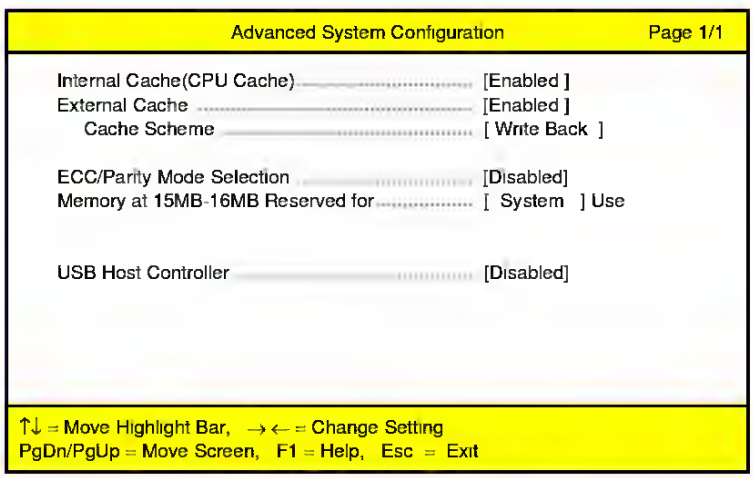
Setup Utility

Advanced System Configuration

The Advanced System Configuration option allows you to configure the advanced system memory functions.

Do not change any settings in the Advanced Configuration if you are not a qualified technician to avoid damaging the computer.

The following screen shows the Advanced System Configuration parameters.


Advanced System Configuration Page 1/1
Internal Cache(CPU Cache) [Enabled]
External Cache [Enabled]
Cache Scheme [Write Back]
ECC/Parity Mode Selection [Disabled]
Memory at 15MB-16MB Reserved for [System] Use
USB Host Controller [Disabled]
↑↓ = Move Highlight Bar, →← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

Internal Cache (CPU Cache)

This parameter enables or disables the first-level cache memory. The default value is **Enabled**.

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External Cache

This parameter enables or disables the second-level cache memory. The default value is **Enabled**.

ECC/Parity Mode Selection

This parameter allows you to enable or disable the ECC and parity check features. Select **Parity** to enable the parity check feature. Select **ECC** to enable the ECC feature. The ECC feature enables BIOS to detect and correct data errors.

Select **Disabled** if you installed SIMMs without parity or if you want to disregard the function.

Memory at 15-16 MB Reserved for

To prevent memory address conflicts between the system and expansion boards, you can reserve this memory range for the system or the expansion board. Before setting this parameter, check you add-on card manual to see if your add-on card needs this memory space. If not, set this parameter to **System Use**.

USB Host Controller

Select **Enabled** if you are using USB devices with your computer. The default value is **Disabled**.

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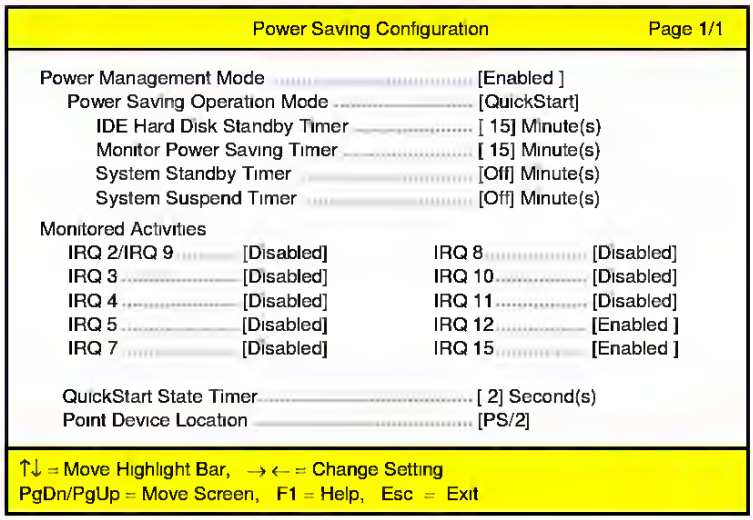
Setup Utility

Power Saving Configuration

The Power Saving Configuration parameters are configurable only if your computer supports the power management feature.

The following screen shows the Power Saving Configuration parameters and their default settings:


Power Saving Configuration Page 1/1
Power Management Mode [Enabled]
Power Saving Operation Mode [QuickStart]
IDE Hard Disk Standby Timer [15] Minute(s)
Monitor Power Saving Timer [15] Minute(s)
System Standby Timer [Off] Minute(s)
System Suspend Timer [Off] Minute(s)
Monitored Activities
IRQ 2/IRQ 9 [Disabled]
IRQ 3 [Disabled]
IRQ 4 [Disabled]
IRQ 5 [Disabled]
IRQ 7 [Disabled]
IRQ 8 [Disabled]
IRQ 10 [Disabled]
IRQ 11 [Disabled]
IRQ 12 [Enabled]
IRQ 15 [Enabled]
QuickStart State Timer [2] Second(s)
Point Device Location [PS/2]
↑↓ = Move Highlight Bar, →← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

Power Management Mode

This parameter allows you to reduce power consumption. When this parameter is set to **Enabled**, you can configure the IDE hard disk and system timers. Setting to **Disabled** deactivates the power management feature and all the timers.

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POWER SAVING OPERATION MODE

This parameter specifies which type of power saving the computer enters into, either Traditional or QuickStart. In Traditional power saving mode, power saving timers are set and these allow the computer to begin power saving during inactivity timeouts; QuickStart power saving mode allows you to put the computer to sleep and wake it up using the On/Off button on the front panel.

IDE HARD DISK STANDBY TIMER

This parameter allows the hard disk to enter standby mode after inactivity of 1 to 15 minutes, depending on your setting. When you access the hard disk again, allow 3 to 5 seconds (depending on the hard disk) for the disk to return to normal speed. Set this parameter to **Off** if your hard disk does not support this function.

MONITOR POWER SAVING TIMER

This parameter sets your display monitor to standby mode. Any keyboard or mouse action returns the monitor to normal operation. The monitor must comply to the VESA DPMS standard.

SYSTEM STANDBY TIMER

This parameter sets the computer to a "fast-on" power saving mode. It automatically enters into the standby mode after a specified period of inactivity. Any keyboard or mouse action, or any enabled monitored activities occurring through the IRQ channels resume computer operation.

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SYSTEM SUSPEND TIMER

This parameter sets the computer to the lowest power saving mode. It automatically enters into the suspend mode after a specified period of inactivity.

In suspend mode, the CPU clock stops. Any keyboard or mouse action, or any enabled monitored activities occurring through the IRQ channels resume computer operation.

Monitored Activities

The IRQ items under this parameter allow you to monitor system activities occurring through the IRQ channels to determine whether or not to enter power saving mode.

For example, if you assign IRQ 3 to a fax/modem and you set this item to **Enabled**, any fax/modem activity wakes up the computer from standby mode.

QuickStart State Timer

The QuickStart State Timer specifies how long the computer enters or wakes up from its power saving mode. The default setting is **2** seconds. Other options include **10 sec**, **15 sec** and **OFF**.

Point Device Location

This parameter sets the location of your pointing device (e.g., mouse) for power management purposes. The default value is **PS/2**. Other options include **COM1**, **COM2** and **None**.

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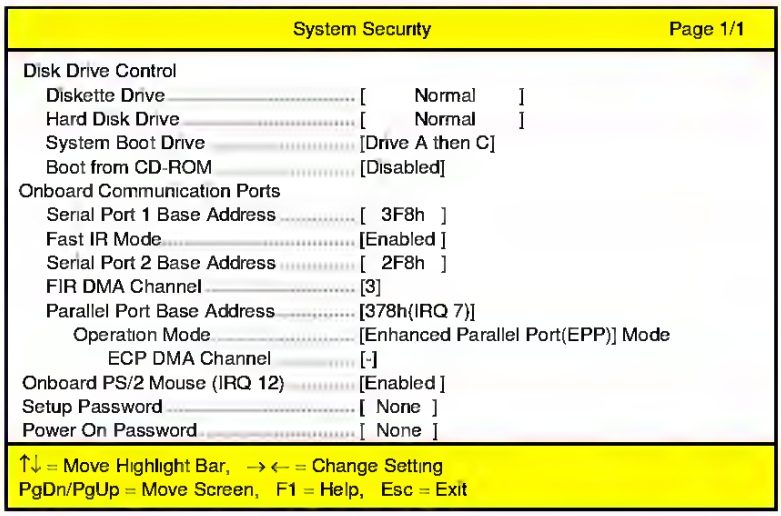
System Security

The Setup program has a number of security features to prevent unauthorized access to the computer and its data.

The following screen appears if you enter the Setup program and select System Security.


System Security
Page 1/1
Disk Drive Control
Diskette Drive [Normal]
Hard Disk Drive [Normal]
System Boot Drive [Drive A then C]
Boot from CD-ROM [Disabled]
Onboard Communication Ports
Serial Port 1 Base Address [3F8h]
Fast IR Mode [Enabled]
Serial Port 2 Base Address [2F8h]
FIR DMA Channel [3]
Parallel Port Base Address [378h(IRQ 7)]
Operation Mode [Enhanced Parallel Port(EPP)] Mode
ECP DMA Channel [-]
Onboard PS/2 Mouse (IRQ 12) [Enabled]
Setup Password [None]
Power On Password [None]
↑↓ = Move Highlight Bar, → ← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

Disk Drive Control

The disk drive control features allow you to enable or disable the read/write functions of a disk drive. These features can also control the diskette drive or the hard disk drive boot function to prevent loading operating systems or other programs from a certain drive while the other drives are operational.

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DISKETTE DRIVE

Setting	Description
Normal	Diskette drive functions normally
Write Protect All Sectors	Disables the write function on all sectors
Write Protect Boot Sector	Disables the write function only on the boot sector
Disabled	Disables all diskette functions

HARD DISK DRIVE

Setting	Description
Normal	Hard disk drive functions normally
Write Protect All Sectors	Disables the write function on all sectors
Write Protect Boot Sector	Disables the write function only on the boot sector
Disabled	Disables all hard disk functions

SYSTEM BOOT DRIVE

Setting	Description
Drive A then C	The computer checks drive A first. If there is a diskette in the drive, the computer boots from drive A. Otherwise, it boots from drive C.
Drive C then A	The computer checks drive C first. If there is a hard disk (drive C) installed, the computer boots from drive C. Otherwise, it boots from drive A.
C:	The computer always boots from drive C.
A:	The computer always boots from drive A.

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BOOT FROM CD-ROM

Setting	Description
Enabled	The computer checks for a bootable CD in the CD-RQM. If a CD is present, the computer boots from the CD-RQM. Otherwise, it boots from the drive specified in the System Boot Drive parameter.
Disabled	The computer boots from the drive specified in the System Boot Drive parameter.

Onboard Communication Ports

SERIAL PORT 1 BASE ADDRESS

This parameter allows you to set the serial port 1 logical base address.

Setting	Description
3F8h	Serial port 1 with address 3F8h using IRQ4
2F8h	Serial port 1 with address 2F8h using IRQ3
3E8h	Serial port 1 with address 3E8h using IRQ4
2E8h	Serial port 1 with address 2E8h using IRQ3
Disabled	Disables serial port 1

FAST IR MODE

This parameter allows you enable or disable Fast IR (Fast Infrared or FIR) mode. If you are using the wireless keyboard, optional remote control or other infrared devices, set this parameter to **Enabled**. When Fast IR Mode is enabled, it occupies the serial port 2 base address.

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SERIAL PORT 2 BASE ADDRESS

This parameter allows you to set the serial port 2 logical base address. Serial port 2 refers to the internal infrared transceiver.

Setting	Description
3F8h	Serial port 2 with address 3F8h using IRQ4
2F8h	Serial port 2 with address 2F8h using IRQ3
3E8h	Serial port 2 with address 3E8h using IRQ4
2E8h	Serial port 2 with address 2E8h using IRQ3
Disabled	Disables serial port 2

If you assign 3F8h to serial port 1, you may only assign 2F8h or 2E8h to serial port 2.

If you assign 2F8h to serial port 1, you may only assign 3F8h or 3E8h to serial port 2.

FIR DMA CHANNEL

If Fast IR Mode is enabled, you need to set a DMA channel for FIR. When Fast IR Mode is enabled, it occupies the serial port 2 base address and the FIR DMA channel. The default value is **3**.

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PARALLEL PORT BASE ADDRESS

This parameter allows you to set the parallel port base address.

Setting	Function
3BCh(IRQ 7)	Corresponds to the parallel port with address 3BCh
378h(IRQ 7)	Corresponds to the parallel port with address 378h
278h(IRQ 5)	Corresponds to the parallel port with address 278h
Disabled	Disables the parallel port

To deactivate the parallel port, select the **Disabled** option. If you install an add-on card that has a parallel port whose address conflicts with the parallel port onboard, the computer automatically disables the onboard functions.

Check the parallel port address on the add-on card and change the address to one that does not conflict.

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OPERATION MODE

This item allows you to set the operation mode of the parallel port.

Setting	Function
Standard Parallel Port (SPP)	Allows one-way operation at normal speed
Standard and Bidirectional	Allows two-way operation at normal speed
Enhanced Parallel Port (EPP)	Allows bidirectional parallel port operation at maximum speed
Extended Capabilities Port (ECP)	Allows parallel port to operate in bidirectional mode and at a speed higher than the maximum data transfer rate

ECP DMA CHANNEL

This item becomes active only if you select **Extended Capabilities Port (ECP)** as the operation mode. It allows you to assign DMA channel 1 or DMA channel 3 for the ECP parallel port function (as required in Windows95).

Onboard PS/2 Mouse (IRQ 12)

This parameter enables or disables the onboard PS/2 mouse. When set to **Enabled**, it allows you to use the onboard PS/2 mouse assigned with IRQ12. When set to **Disabled**, it deactivates the mouse and makes IRQ12 available for use by other devices.

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Setup Password

The Setup Password prevents unauthorized access to the BIOS utility. Once the Setup Password is set, you must key-in this password the next time you want to enter the BIOS utility. To set the Setup Password, see page 27.

Power On Password

The Power On Password secures your computer against unauthorized use. Once the Power On Password is set, you have to type it whenever you boot the computer. To set the Power On Password, see page 27.

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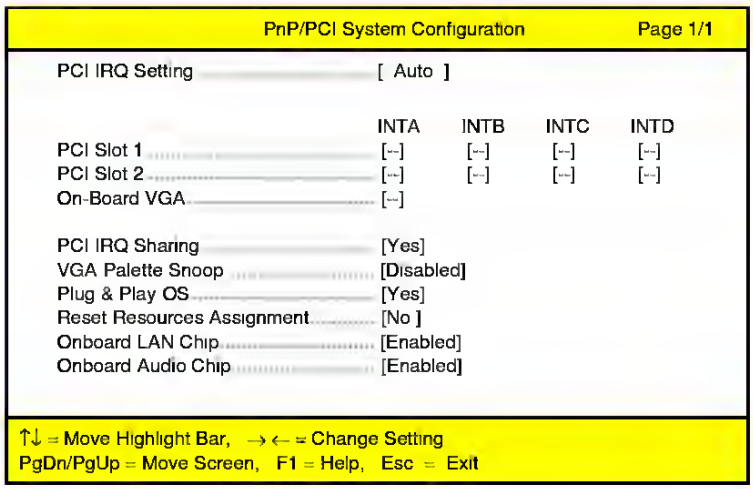
Setup Utility

PCI/PnP System Configuration

The PnP/PCI System Configuration allows you to specify the settings for your PCI devices.


PnP/PCI System Configuration Page 1/1
PCI IRQ Setting [Auto]
INTA INTB INTC INTD
PCI Slot 1 [--] [--] [--] [--]
PCI Slot 2 [--] [--] [--] [--]
On-Board VGA [--]
PCI IRQ Sharing [Yes]
VGA Palette Snoop [Disabled]
Plug & Play OS [Yes]
Reset Resources Assignment [No]
Onboard LAN Chip [Enabled]
Onboard Audio Chip [Enabled]
↑↓ = Move Highlight Bar, → ← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

PCI IRQ Setting

This parameter allows for auto or manual configuration of PCI devices. If you use Plug and Play (PnP) devices, you can keep the default setting **Auto** to automatically configure PnP devices. If your PCI device is not Plug and Play, you can manually assign the interrupt for each of the device.

Refer to your manual for technical information about the PCI card.

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PCI Slots (1 and 2)

These parameters allow you to specify the appropriate interrupt for each of the PCI devices. You can assign **IRQ5**, **IRQ9**, **IRQ10**, **IRQ11** or **IRQ15** to the slots.

Press ↑ or ↓ to move between fields. Press → or ← to select options.

Onboard VGA

This option allows you to specify an interrupt for the onboard VGA. You can assign **IRQ5**, **IRQ9**, **IRQ10**, **IRQ11**, or **IRQ15** to the slots.

Make sure that you assign a different interrupt for each device to avoid conflict. However, if there are no more IRQs available for the remaining functions, you may assign the same IRQ to two different functions. See section below.

PCI IRQ Sharing

Setting this parameter to **Yes** allows you to assign the same IRQ to two different devices. To disable the feature, select **No**.

Enable this parameter only if there are no IRQs available to assign for the remaining device function.

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Setup Utility

VGA Palette Snoop

This parameter permits you to use the palette snooping feature if you installed more than one VGA card in the computer.

The VGA palette snoop function allows the control palette register (CPR) to manage and update the VGA RAM DAC (Digital Analog Converter, a color data storage) of each VGA card installed in the computer. The snooping process lets the CPR send a signal to all the VGA cards so that they can update their individual RAM DACs. The signal goes through the cards continuously until all RAM DAC data have been updated. This allows display of multiple images on the screen.

Some VGA cards have required settings for this feature. Check your VGA card manual before setting this parameter.

Plug & Play OS

When this parameter is set to **Yes**, BIOS initializes only PnP boot devices such as SCSI cards. When set to **No**, BIOS initializes all PnP boot and non-boot devices such as sound cards.

Set this parameter to **Yes** *only if your operating system is Windows 95.*

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Reset Resources Assignment

Set this parameter to **Yes** to avoid IRQ conflict when installing non-PnP or PnP ISA cards. This clears all resource assignments and allows BIOS to reassign resources to all installed PnP devices the next time the computer boots. After clearing the resource data, the parameter resets to **No**.

Onboard LAN Chip

If you are connecting the computer to a network using the onboard network chip, this parameter should be set to **Enabled**. If you want to use a network add-on card instead, set this parameter to **Disabled**.

Onboard Audio Chip

To enable audio using the onboard audio chip, this parameter should be set to **Enabled**. If you want to use an audio add-on card instead, set this parameter to **Disabled**.

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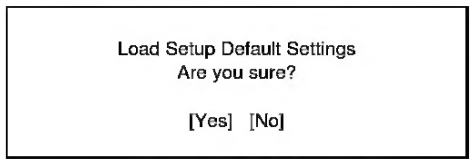
Setup Utility

Load Setup Default Settings

This option loads the default settings for optimized computer operation. When you load the default settings, some parameters are grayed-out and fixed.

The following dialog box appears when you select Load Setup Default Settings from the main menu.



Select **Yes** to load the default settings.

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